PERENNIAL

PROPAGATION

*Campanula Dalmatian bellflower*
Campanula portenschlagiana

<table>
<thead>
<tr>
<th>TRAY &amp; ROOTING</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Unrooted Cuttings (URC)</td>
</tr>
<tr>
<td>Rooting Hormone</td>
<td>Yes</td>
</tr>
<tr>
<td>Tray Size(s)</td>
<td>72, 105</td>
</tr>
<tr>
<td>Plants Per Cell</td>
<td>1</td>
</tr>
<tr>
<td>Wks. From Stick To Transplant</td>
<td>5-6</td>
</tr>
<tr>
<td>Pinch?</td>
<td>Yes</td>
</tr>
<tr>
<td>Days from stick to pinch</td>
<td>14-21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FERTILITY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilize Through Mist?</td>
<td>No</td>
</tr>
<tr>
<td>Fertilizer Rate</td>
<td>100-150 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])</td>
</tr>
<tr>
<td>EC Range</td>
<td>Moderate: (2.0-3.5 mS via SME)</td>
</tr>
<tr>
<td>pH Range</td>
<td>5.8-6.2</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>TEMPERATURE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Soil Temperature</td>
<td>65-72°F (18-22°C)</td>
</tr>
<tr>
<td>Average Air Temperature</td>
<td>65-72°F (18-22°C)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IRRIGATION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation Frequency</td>
<td>Level 3: Keep media moderately moist with mild dry cycles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIGHT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplemental</td>
<td>Yes</td>
</tr>
<tr>
<td>Benefits From Shade?</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POTENTIAL DISEASES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Botrytis, downy mildew</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>POTENTIAL PESTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>aphids, whitefly</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PGR SUGGESTIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Optional 3-5 ppm Sumagic (0.055% Uniconazole)</td>
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</table>

**TIPS**

- An IBA rooting hormone should be applied at 600-1000 ppm before stick. This will ensure swift and uniform rooting.
- Campanula should generally be misted for 14-18 days after stick. Cuttings are sensitive to overwatering and soggy soil. Ensure roots have access to adequate oxygen.
- Sticking cuttings too deep can lead to death in plug trays or crown rot in the finishing pot.

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PERENNIAL
FINISHING

Campanula Dalmatian bellflower
Campanula portenschlagiana

VERNALIZATION
Vernalization Required? Yes
Vernalization Duration Minimum 6-8 weeks
Vernalization Temperature 35-40°F (1.6-4.4°C)

CONTAINER SIZE

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Plants Per Pot</th>
<th>Transplant to Finish (Weeks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 in./qt (10-12 cm)</td>
<td>1</td>
<td>10-12</td>
</tr>
<tr>
<td>6 in./Gal. (15-16 cm)</td>
<td>2</td>
<td>10-12</td>
</tr>
</tbody>
</table>

Fertilizer Rate 150-200 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])
EC Range Moderate: (2.0-3.5 mS via SME)
pH Range 5.8-6.4

TEMPERATURE
Day Temperature 65-75°F (18-24°C)
Night Temperature 55-65°F (13-18°C)

IRRIGATION
Irrigation Frequency Level 3: Keep media moderately moist with mild dry cycles

LIGHT
Photoperiodic requirements Long day: 12+ hours daily
Supplemental? None
Benefits From Shade? No

PINCHING
Finishing Pinch? Optional
Transplant to pinch (days) 14-21

POTENTIAL DISEASES
Botrytis, downy mildew

POTENTIAL PESTS
aphids, whitefly

PGR SUGGESTIONS
• Bonzi (0.4% Paclobutrazol) 5-40ppm spray
• 5-8 ppm Sumagic (0.055% Uniconazole)
• 2500 ppm B-Nine (85% Daminozide) as needed

TIPS
• Vernalization is most effective if completed in pots 4-6 weeks after plants have been transplanted into their finishing container.
• Drip irrigation and proper spacing helps to prevent stretching and promote a compact growth habit.

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**PERENNIAL**

**FEATURES AND BENEFITS**

*Campanula Dalmatian bellflower*

*Campanula portenschlagiana*

<table>
<thead>
<tr>
<th>KEY INFORMATION</th>
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<tbody>
<tr>
<td>First Year Flowering?</td>
</tr>
<tr>
<td>Bloom Time</td>
</tr>
<tr>
<td>Exposure</td>
</tr>
<tr>
<td>Hardiness Zone</td>
</tr>
<tr>
<td>Height</td>
</tr>
<tr>
<td>Width</td>
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**DESCRIPTION**

A hardy and low maintenance addition to the garden with lavender-lilac colored upward facing bellflowers atop a well-behaved mini-plant.

**CONSUMER APPEAL**

- In full bloom, the carpet of purple flowers attracts bees and certain butterfly species like skippers.
- The latex filled white sap that’s excreted by the Campanula genus when cut or damaged helps to make this plant resistant to deer and rabbits. Make sure to clean your pruners after deadheading or trimming.

**GARDEN ATTRIBUTES**

- Adorably compact, this Campanula works well as a border ground cover, in rock gardens, along pathways (although it does not tolerate foot traffic) or even in containers.
- The slowly spreading “magical” look to Campanula combined with dainty purple flowers make this the perfect fairy garden plant.
- Due to this plant’s alpine origins, it prefers a consistently maintained average moisture level. It is tolerant of clay soil conditions if not overwatered.
- Although usually grown in full sun conditions, part shade or dappled sun is appreciated during the sultry heat of the summer.

**NATIVITY**

Native to the Dalmatian Mountains spanning Croatia plus Bosnia & Herzegovina.

**COMPANION PLANTS**

*Agastache, Geranium, Veronica, Phlox, Alstroemeria*

**COMMON NAME(S)**

Dalmatian bellflower, Adria bellflower, wall bellflower

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